



# **RS-10**

## **Reference Series**

## **Speaker System**

# **SERVICE MANUAL**



Infinity Systems, Inc  
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Woodbury, New York 11797

REV 1 5/2001

## Table of Contents

SPECIFICATIONS .....	3
DETAILED SPECIFICATIONS .....	4
SET-UP GUIDE .....	5
TROUBLE SHOOTING .....	8
SERVICE BULLETIN .....	9
SYSTEM COMPONENTS .....	10
AURAL SWEEP TEST SPECIFICATIONS .....	10
WIRING DIAGRAM .....	10
PASSIVE SCHEMATIC DIAGRAM .....	10
EXPLODED VIEW .....	11
AMPLIFIER EXPLODED VIEW .....	12
BLOCK DIAGRAM .....	13
CIRCUIT BOARD DIAGRAM .....	14
ELECTRICAL PARTS LIST .....	17
INTEGRATED CIRCUIT DIAGRAMS .....	20
SCHEMATICS .....	21

## Specifications

### SPECIFICATIONS

#### PERFORMANCE DATA

Recommended Amplifier Power: 15 ~ 200W  
Frequency Range: 28 ~ 20,000Hz  
Sensitivity:(2.83 V @ 1 m) 93dB  
Nominal Impedance: 8 Ω  
Subwoofer-Amplifier Power: 150W

#### DRIVE UNITS

Bass: 10" (254mm)  
Midbass: Dual 5-1/4" (133mm)  
High Frequency: 1" (25mm)

#### DIMENSIONS

Height, Width, Depth: 44-1/4 x 7-1/2 x 17"  
(1124 x 191 x 432mm)

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## RS-10 Amplifier, 150W Powered Sub/Plate Amp

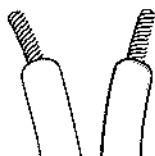
LINE VOLTAGE	Yes/No	Hi/Lo Line	Nom.	Unit	Notes
US 120vac/60Hz	Yes	108-132	120	Vrms	Normal Operation
EU 230vac/50-60Hz	Yes	207-264	230	Vrms	Normal operation, MOMS required
Parameter	Specification	Unit	QA Test Limits	Conditions	Notes
<b>Amp Section</b>					
Type (Class AB, D, other)	G	TBD	n/a		Class D Preferred...Sink required for Class AB
Load Impedance (speaker)	4 Ohms	n/a	Nominal		Z-curve required
Rated Output Power	150 Watts	130	1 input driven		130w nominal due to limiter non-linearity at high power
THD@ Rated Power	0.1 %	0.8	22k filter		150w
THD @ 1 Watt	0.3 %	1	22k filter		
DC Offset	10 mV-DC	20	@ Speaker Outputs		
Damping factor	>200 DF	100			
<b>Input Sensitivity</b>					
Input Frequency	50 Hz	50	Nominal Freq.		1 input driven
Line Input	600 mVrms	±2dB	To Rated Power		1 input driven
Speaker/Hi Level Input	6 Vrms	±2dB	To Rated Power		(-20dB below Line In)...1 input driven
<b>Signal to Noise</b>					
SNR-A-Weighted	100 dBA	90	relative to rated power		A-Weighting filter
SNR-unweighted	70 dB 70 dB 60 dB	70 relative to rated power 55	relative to rated power 22k filter		
SNR rel. 1W-unweighted			relative to 1W Output		22k filter
Residual Noise Floor	2 mVrms	5	Volume @max, using RMS reading DMM/VOM (or A/P)		
Residual Noise Floor	1.5 mVrms(max)	4	Volume @max, w/ A/P Swept Bandpass Measurement (Line freq.+ harmonics)		
<b>Input Impedance</b>					
Line Input	20k ohms	n/a	Nominal		
Speaker/Hi Level Input	10k ohms	n/a	Nominal		
<b>Filters</b>					
Low Pass (fixed or variable)	fixed				
Low Pass filter (point or range)	5k (direct), 250 (normal)	Hz	±2dB		
Slope	18 dB/Octave	--			
Q	--	Damping	--		
Subsonic filter (HPF)	--	Hz	±2dB		
Slope	12 dB/Octave	--			
Q	--	Damping	--		
<b>Limiter (yes/no)</b>	Yes				
<b>Features</b>	--				
Volume pot Taper (lin/log)	linear	--	functional		
<b>Input Configuration</b>	--	--			
Line In (L,C,R,AC3,Mono)	AC3(Flat), and Mono	--	functional	Line/Spkr Input Select Switch	
Spkr/Hi Level In (L,C,R,mono)	Mono	--	functional	Line/Spkr Input Select Switch	
<b>Signal Sensing (ATO)</b>		--			
Auto-Turn-On (yes/no)	yes		functional		
ATO Input Frequency	100 Hz		functional		
ATO Level	2 mV	functional	1kHz into Line Input w/ 1 ch. driven		
ATO Bandwidth	5k Hz	functional	ATO-LPF for noise immunity		
ATO Turn-on time	5 ms	functional	Amp connected and AC on, then input signal applied		
Auto Mute/ Turn-OFF Time	15 minutes	10	T before muting, after signal is removed		
<b>Power on Delay time</b>	3 sec.	4	AC Power Applied		
<b>Transients/Pops</b>					
ATO Transient	5 mV-peak	n/a	@ Speaker Outputs		
Turn-on Transient	50 mV-peak	2v-pp	@ Speaker Outputs	AC Line cycled from OFF to ON	
Turn-off Transient	50 mV-peak	2v-pp	@ Speaker Outputs	AC Line cycled from ON to OFF	
<b>Efficiency</b>					
Stand-by Input Power	10 Watts	15	@ nom. line voltage		
AC Power Cons. @1W	n/a Watts	n/a	@ nom. line voltage		
Power Cons. @rated power	300 Watts	n/a	@ nom. line voltage		
<b>Protection</b>					
Short Circuit Protection	preferred	functional	Direct short at output		
Thermal Protection	yes		@ t/8 max unclipped Power		
DC Offset Protection	yes		DC present at Speaker Out leads	Relay or crowbar (for driver/fuse protection)	
Line Fuse Rating	4 Amps		Type-T or Slo Blo	External fuse with UL/SEMKO rated holder	

## Wiring the System

TURN OFF ALL POWER...

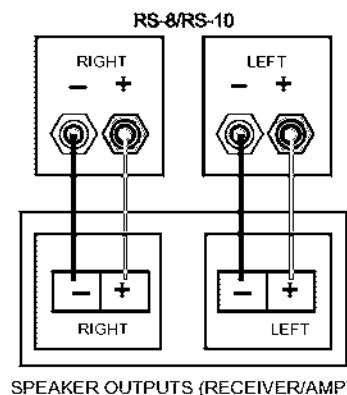
IMPORTANT: Make sure all equipment is turned off before making any connections

### Connection Tips

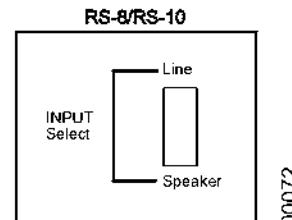


Speakers and electronics terminals have corresponding (+) and (-) terminals. It is important to connect both speakers identically: (+) on the speaker to (+) on the amplifier and (-) on the speaker to (-) on the amplifier. Wiring "out of phase" results in thin sound, weak bass and a poor stereo image.

If your receiver does not have a subwoofer output:



Set Input Select switch to "Speaker."



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## Wiring the System (Cont.)

### If your receiver has a subwoofer output:

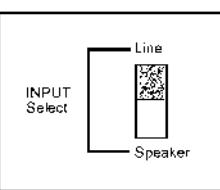
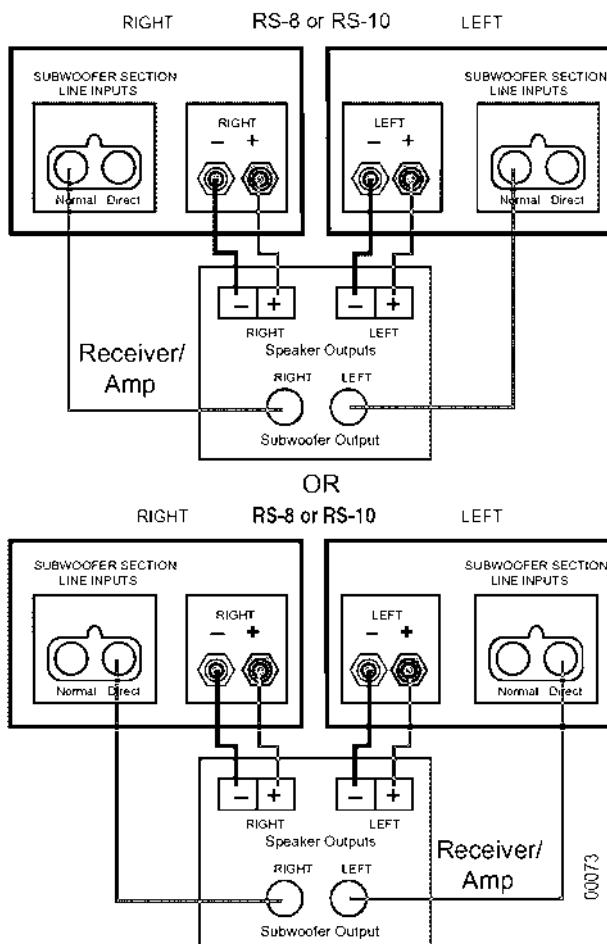
The RS-10 incorporates two different types of line-level inputs that allow you to optimize the loudspeakers' performance in your system.

If your receiver/processor's subwoofer output is already low-passed filtered, meaning the high frequencies have been removed by the receiver, use the subwoofer input labeled **Direct**.

If your receiver/processor's subwoofer output is full range, meaning the high frequencies have not been removed by the receiver, use the subwoofer input labeled **Normal**.

If you are unsure as to which type of subwoofer output your receiver/processor contains, please consult your receiver/processor owner's manual or contact the manufacturer.

Do not hook up both inputs. Doing so will adversely affect the performance of the system.



Set Input Select switch to "Line."

*NOTE: Some receivers/amplifiers have a single (mono) subwoofer output. In this case, it is necessary to use a "Y"-connector (not included) to properly hook up the speakers using this method.*

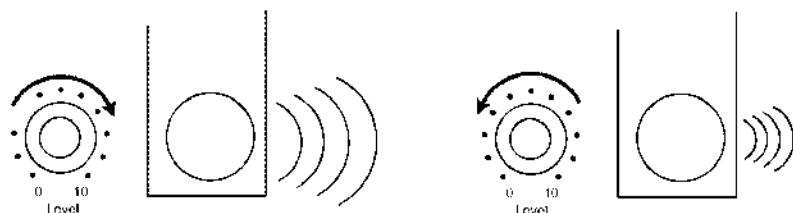
## FINAL ADJUSTMENTS

Check the speakers for playback, first by setting the system volume control to a minimum level and then by applying power to your audio system. Play a favorite music or video segment and increase the system volume control to a comfortable level.

*Note: You should hear balanced audio reproduction across the entire frequency spectrum. If not, check all wiring connections or, for more help, consult the Authorized Infinity Dealer where you purchased the system.*

The amount of bass you hear will be affected by a number of different factors, including the room's size and shape, the construction materials used to build the room, the listener's position relative to the speakers and the position of the speakers in the room.

To fine-tune the bass output, simply adjust the level control at the rear of the speaker.



Listen to a variety of music selections and note the bass level. Increase or decrease to the level you prefer.

## AUTO - ON SWITCH

When the Auto/On is set to ON (and AC Power switch is also ON), the RS-10's auto-sensing circuit will automatically turn on the subwoofer when a signal is detected. As long as a signal is present, the RS-10 will stay ON (as indicated by a Green LED). When the signal is absent after approximately 8-10 minutes, the auto-sensing circuit will shut down the system, in the "stand-by" mode (as indicated by a Red LED).

When the Auto Power switch is set to OFF (and AC Power switch is ON), RS-10's auto-sensing circuit is defeated, as indicated by a constantly lit Green LED; the RS-10 is energized whether or not it is receiving a signal.

NOTE: The Auto/On switch is not a true power switch and the amplifier is fully energized no matter what position this switch is in.

For extended periods of non-use, or vacations, it is recommended that the RS-10 be turned OFF with the Main Power Switch.

## Trouble Shooting

If there is no sound from any of the speakers, check the following:

- Receiver/amplifier is on and source is playing.
- Review proper operation of your receiver/amplifier.

If there is no sound coming from one speaker, check the following:

- Check the "Balance" control on your receiver/amplifier.
- Check all wires and connections between receiver/amplifier and speakers.
- Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.

If the system plays at low volumes but shuts off as volume is increased, check the following:

- Check all wires and connections between receiver/amplifier and speakers.
- Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
- If more than one pair of main speakers is being used, check the minimum impedance requirements of your receiver/amplifier.

If you used the high-level (speaker) inputs only and there is no sound from any of the speakers, check the following:

- Receiver/amplifier is on and a source is playing.
- Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured.
- Review proper operation of your receiver/amplifier.

If there is low bass output, check the following:

- Make sure the connections to the left and right "Speaker Inputs" have the correct polarities (+ and -)
- Make sure that the RS-10 is plugged into an active electrical outlet.
- Adjust the subwoofer-level control.
- Make sure the input-select switch is in the correct position (pages 5, 6)

If you used the line-level inputs and there is no sound from the subwoofer, check the following:

- Receiver/amplifier is on and a source is playing.
- RS-10 is plugged in.
- Check all wires and connections between receiver/amplifier and speakers. Make sure all wires are connected. Make sure none of the wires are frayed, cut or punctured.
- Review proper operation of your receiver/amplifier.
- Make sure the input-select switch is in the correct position (pages 5, 6)

## Service Bulletin

Service bulletin INF9901 - March 1999

This is considered a Minor repair

To: All Infinity Service Centers

Models: RS-8, RS-10 Powered Loudspeaker (all units with "M" in serial number)\*

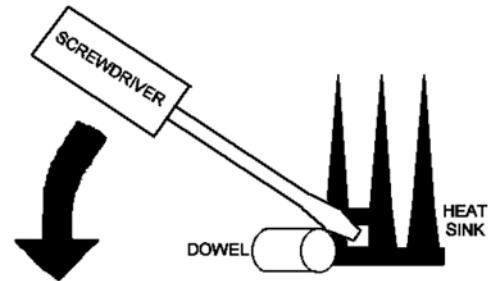
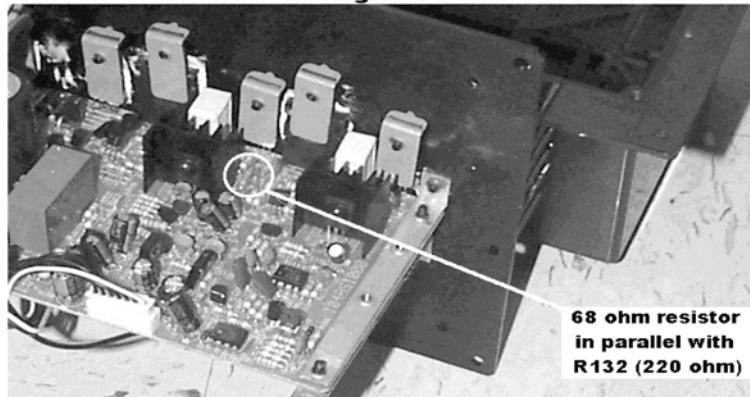
Subject: Amplifier plate overheating, reduction in idling current

\* Number is located in the speaker input cup.

**In the event you receive a RS-8 or RS-10 Powered Loudspeaker with the complaint "amplifier plate is getting too hot", or "amplifier is blowing fuses", perform the necessary steps listed below. This procedure should be performed on all RS-8 or RS-10 amplifiers being serviced for any reason:**

1. Lay the loudspeaker on its side, on a padded surface.
2. Remove (12) screws holding amplifier assembly to cabinet, remove amplifier. When amplifier plate seems "stuck" then see illustration below. Input, output, and LED wires do not need to be disconnected.
3. Remove (8) screws holding plastic cover to amp plate, pull cover off; gain access to top of Power Supply PCB.
4. Tack-solder a 68 ohm 1/4W resistor (Infinity part# 5174-680381) in parallel with R132 (220 ohm) on the top side of the Power Supply PCB (see Figure 1 for location).
5. Locate and cut out C130 (between heatsink and bridge rectifier).
6. (RS10 only) - Additionally, locate and cut out C129 (near the AC power cable connector and the large filter caps).
7. Re-connect any molex connectors that were unplugged. Caution: two connectors are identical in size and could be misplaced; the white/black molex cable connects to the female connector closest to the heatsink. If strain relief plug was removed, replace and seal plug on the rear of plastic cover with suitable glue, silicon seal or hot-melt.
8. Replace plastic cover and (8) cover screws. Place amplifier assembly in cabinet; replace all (12) screws.
9. Functional Test - Connect AC Wattmeter to AC input line, turn the unit ON.
10. Connect music signal from a CD source and increase volume to medium level to verify sound from the loudspeaker.
11. Conduct warm-up for 10 minutes, remove music signal. Input power should not exceed 20 watts.

Figure 1



Units that have been modified by the factory may be identified by a white numbered label that was attached to the top of the amplifier cover (amplifier must be removed from cabinet to see); additionally there is a single digit difference in the date code in the label on the loudspeaker's outer carton.

Model	Label number (120V)	Carton date Code	Status	Action
RS8/RS10	No Label present	X8X-XXXX	Needs Modification	RS-8, Cut C130 RS-10, Cut C129 & C130
RS-8	AVS0199-0001 to AVS0199-2692	X9X-XXXX	Modified by factory	NONE REQUIRED
RS-10	AVSRS10-0001 to AVSRS10-1338		Modified by factory	NONE REQUIRED

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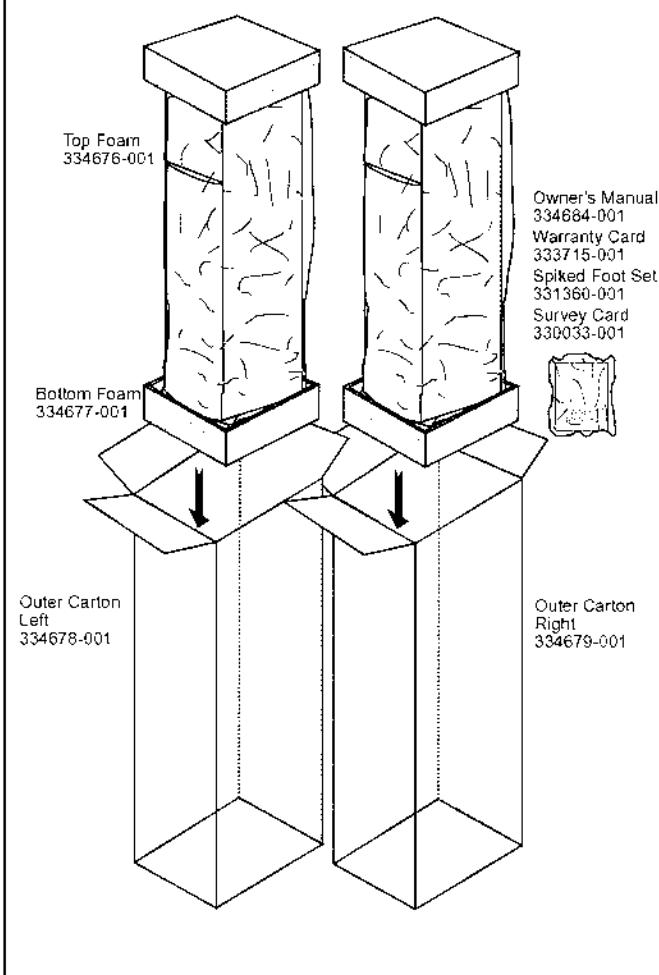
## ACOUSTIC &amp; ELECTRICAL SPECIFICATIONS:

• Nominal Impedance	8 ohms
• Max Amp Power	200 watts
• Frequency Response	28Hz - 20kHz
• Sensitivity	93 dB (1 watt @ 1 meter)
• Crossover Frequency	100 Hz, 2.5 kHz
• Subwoofer Amplifier Power	150 watts

## SYSTEM COMPONENTS:

• Cabinet (L/R)	RS-10 (Not for Sale)
• Subwoofer Grille	334671-001
• Upper Grille	333204-001
• Lower Grille	334540-001
• Low Frequency Transducer	10" (254mm) Woofer (334700-001)
DC Resistance	3.7 ohms $\pm 10\%$

## PACKAGING



• Mid/low Frequency Transducer	(2) 5 1/4" (133mm) Shielded Co-injected (330650-001)
DC Resistance	7.7 ohms $\pm 10\%$
• High Frequency Transducer	1" (25mm) Neodymium Soft Dome (333232-001)
DC Resistance	3.6 ohms $\pm 10\%$
• Crossover Network	334681-001

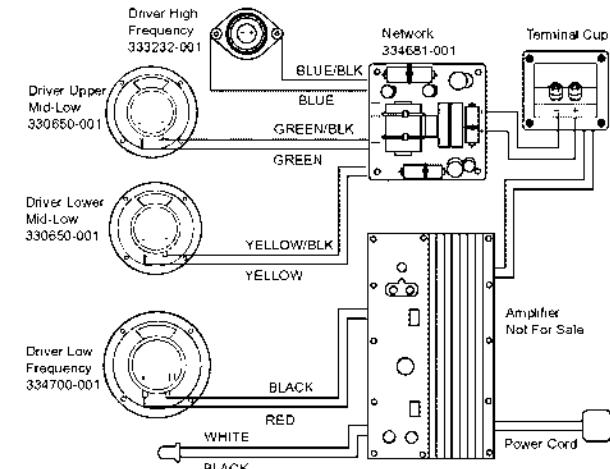
## AURAL SWEEP TEST SPECIFICATIONS:

• System Aural Sweep Test	6.0V Input 20 Hz to 20 kHz
• L.F. Aural Sweep Test	5.0V Input 20 Hz to 200 Hz
• M.F. Aural Sweep Test	4.0V Input 100Hz to 3 kHz
• H.F. Aural Sweep Test	2.83V Input 2 kHz to 20 kHz

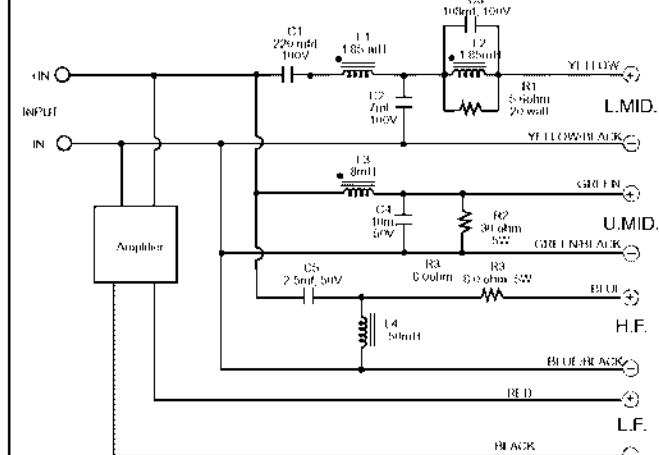
## PHYSICAL SPECIFICATIONS:

• Enclosure dimensions:	44 1/4 x 7 1/2 x 17"
	(H x W x D) 1124 x 191 x 432mm
• Weight	70 lbs. (31.7kg) Each

## WIRING DIAGRAM



## RS-10 SCHEMATIC

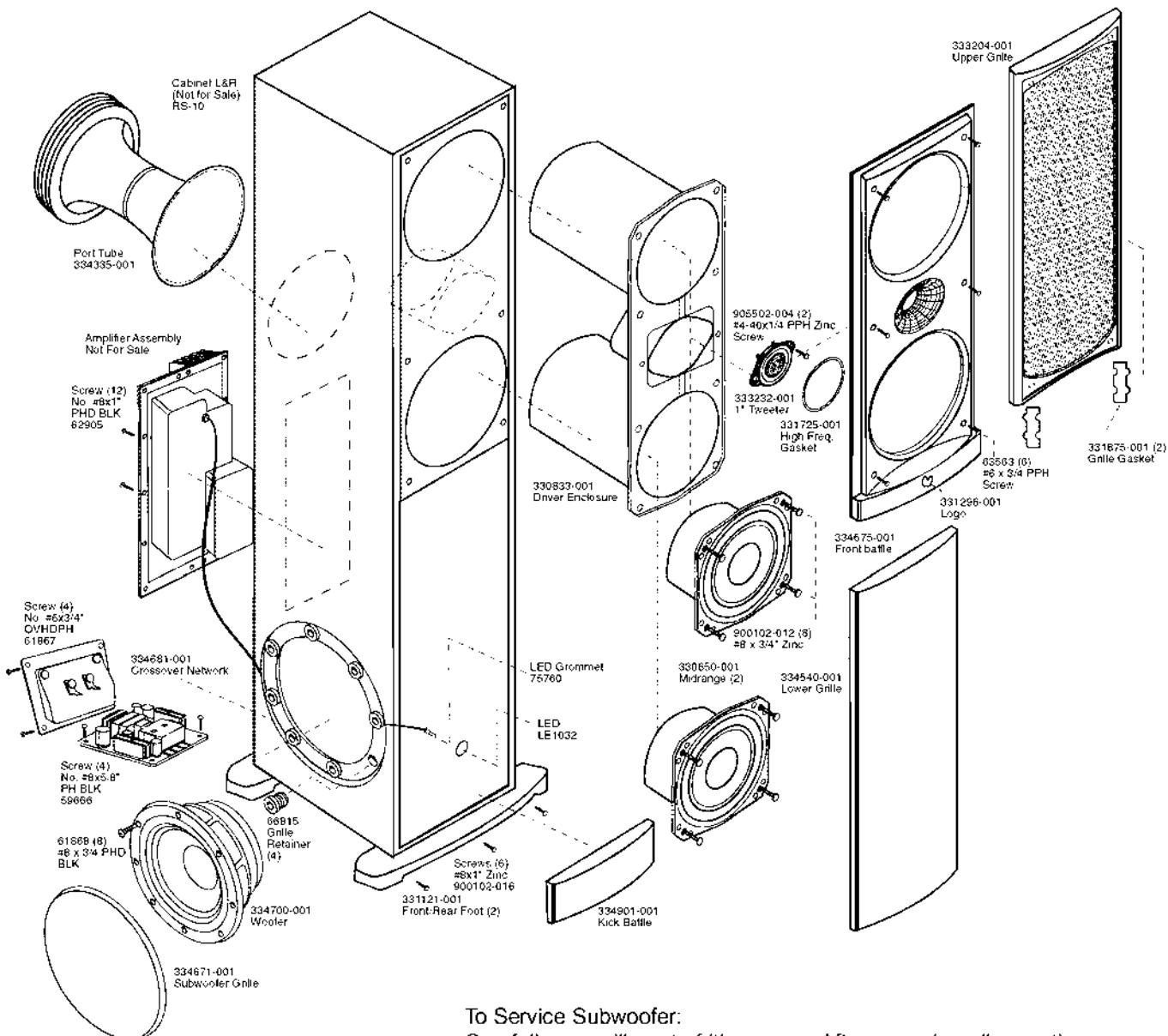


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RS-10

## Component Exploded View

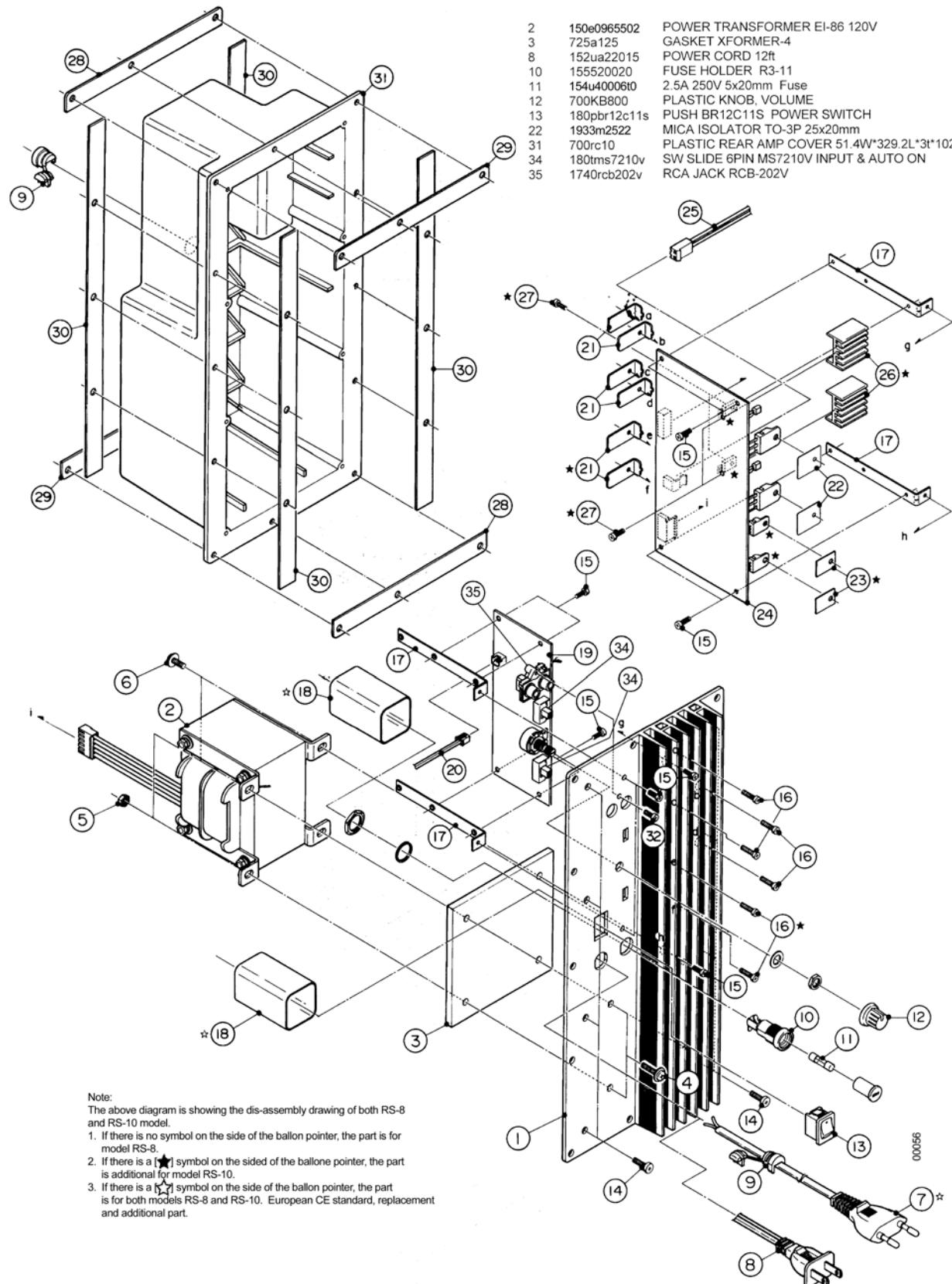
COMPONENT EXPLODED VIEW  
RS-10 **Right** Loudspeaker is depicted here



### To Service Subwoofer:

Carefully pry grille out of it's recess. After removing all mounting screws if woofer cannot be extracted from recess, you may have to remove the input cup (speaker terminals) or amplifier assembly to create an opening. Then a hammer or similar object can be inserted behind the woofer to tap it out.

# RS-10 Amplifier Exploded View



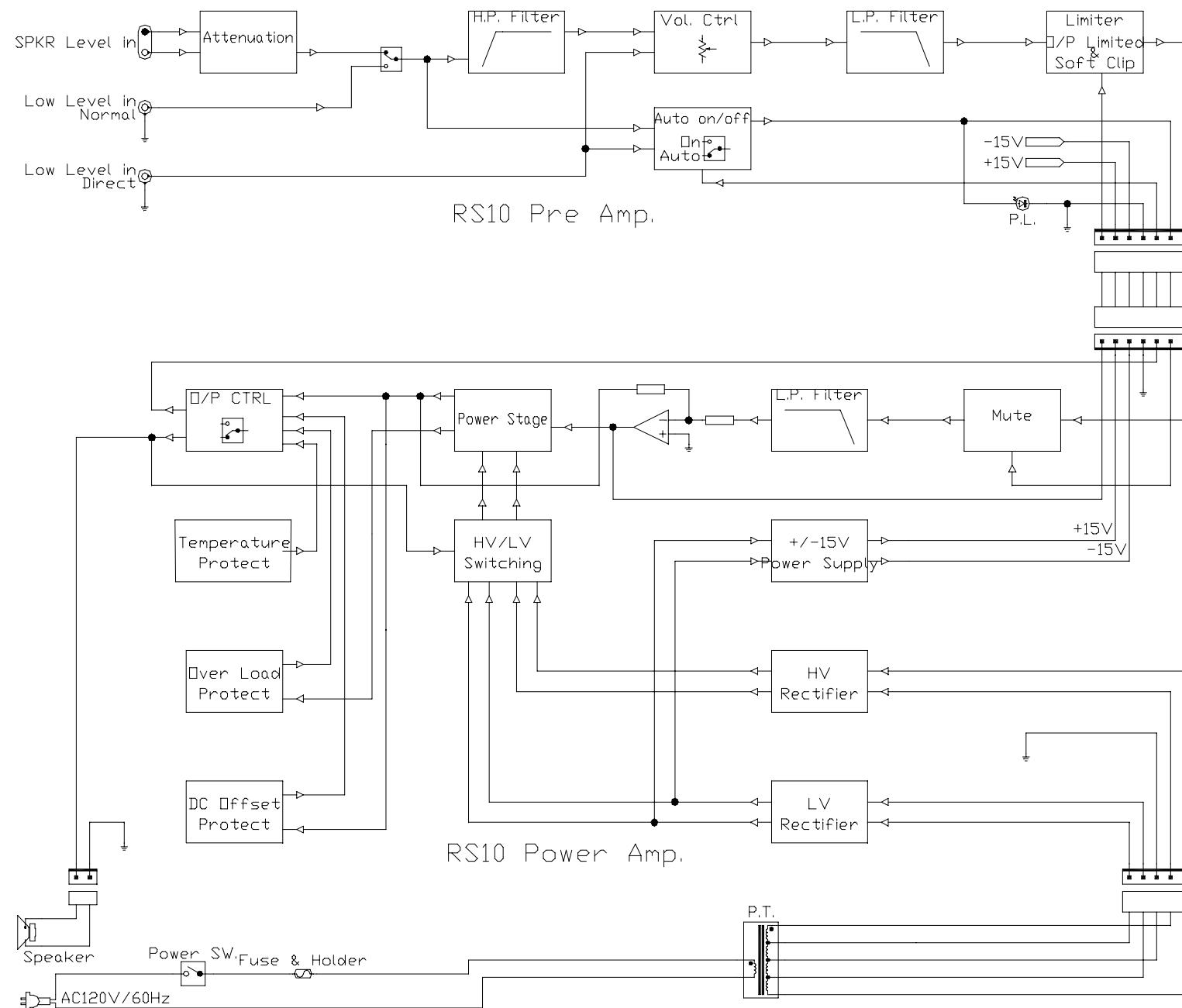
Note:

**Note:** The above diagram is showing the dis-assembly drawing of both RS-8 and RS-10 model.

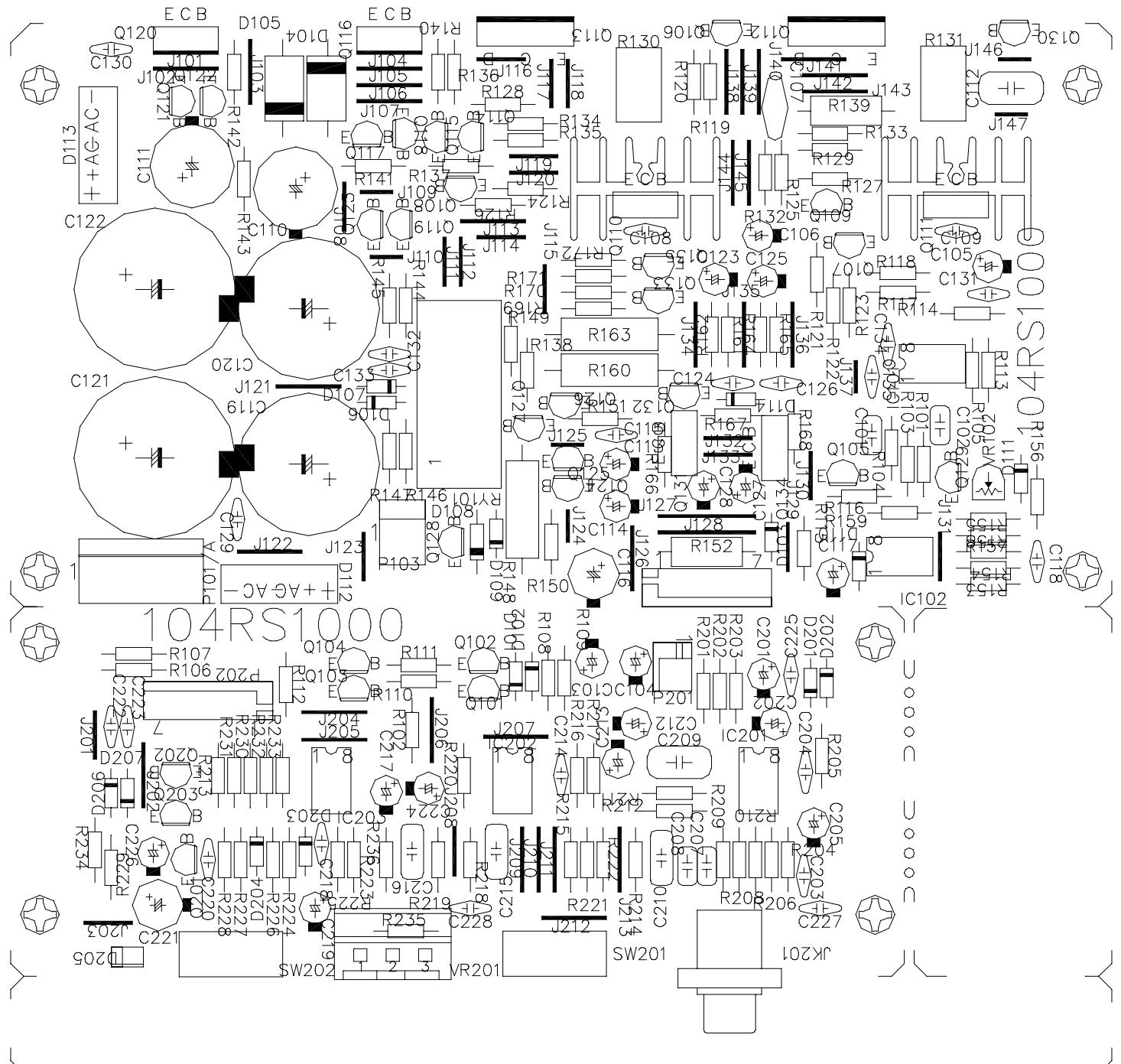
and RS-10 model.

1. If there is no symbol on the side of the balloon pointer, the part is for model RS-8.
2. If there is a  symbol on the side of the balloon pointer, the part is additional for model RS-10.
3. If there is a  symbol on the side of the balloon pointer, the part is for both models RS-8 and RS-10. European CE standard, replacement and additional part.

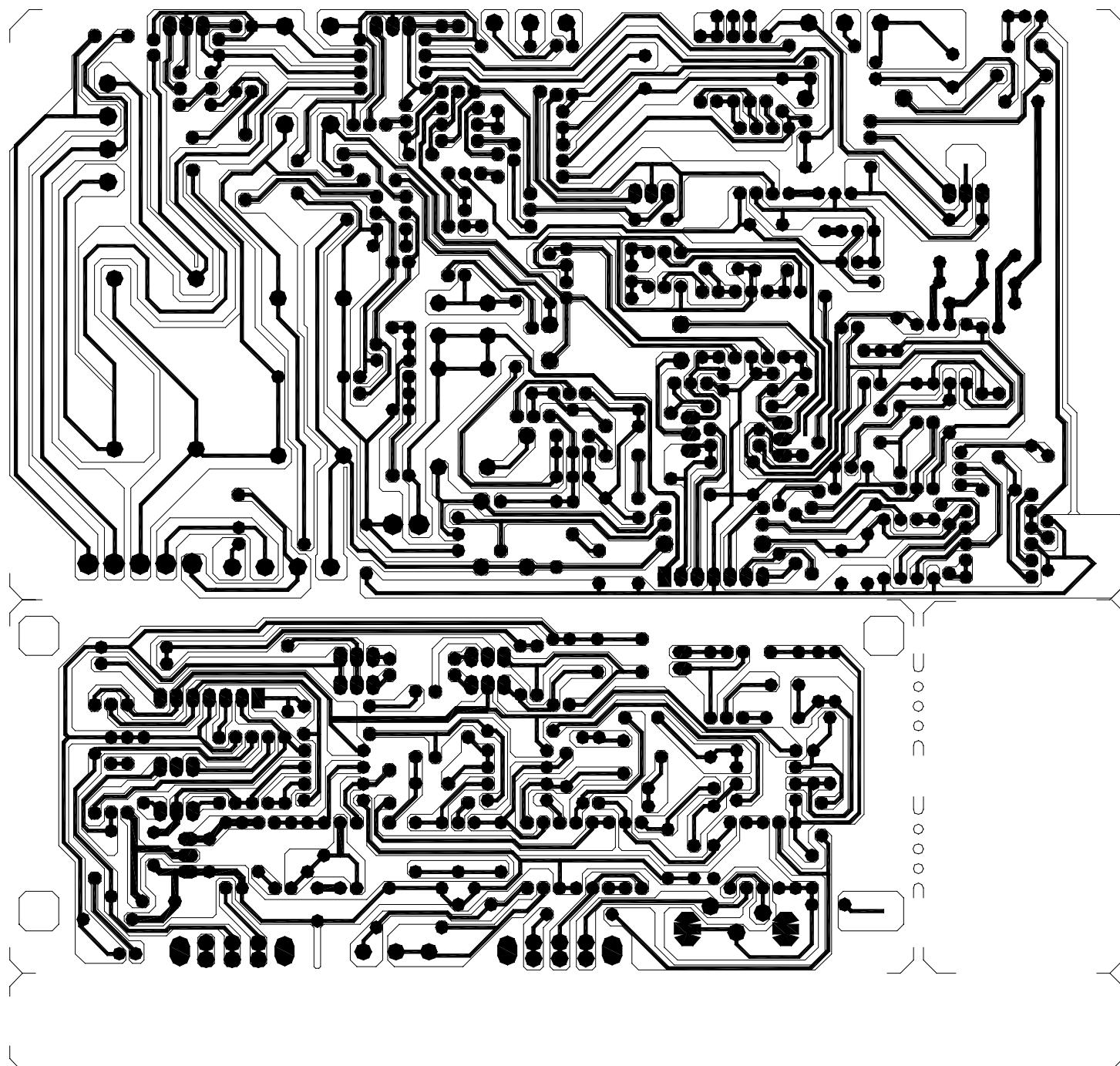
## Block Diagram



## RS-10 Circuit Boards

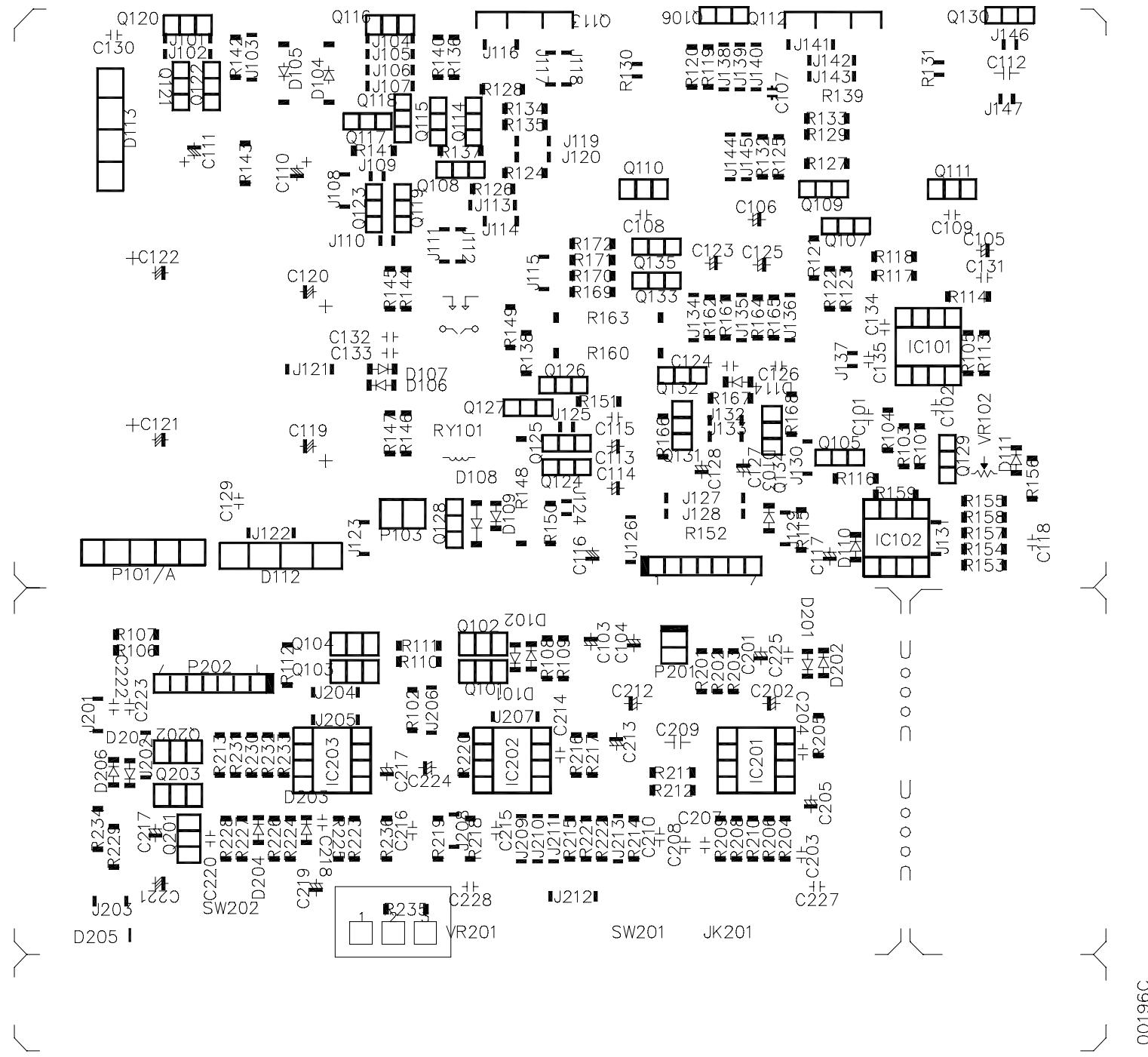


## RS-10 Circuit Boards (Cont.)



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## **RS-10 Circuit Boards (Cont.)**



## RS-10 Electronic Parts List

Part Number	Qty	Designator	Description
Resistors			
11014100j26	1.0	R112	10 ohms [ 1/4W 5% CF 26mm
11014101j26	1.0	R133	100 ohms [ 1/4W 5% CF 26mm
11014102j26	4.0	R135,170,171,226	1K 1/4W 5% CF 26mm
11014103j26	7.0	R105,116,201,206,215,218,230	10K 1/4W 5% CF 26mm
11014104j26	6.0	R108,109,144,145,202,203	100K 1/4W 5% CF 26mm
11014105j26	2.0	R159,233	1M 1/4W 5% CF 26mm
11014151j26	3.0	R126,127,225	150 ohms [ 1/4W 5% CF 26mm
11014152j26	2.0	R113,134	1.5K 1/4W 5% CF 26mm
11014153j26	3.0	R121,166,168	15K 1/4W 5% CF 26mm
11014154j26	1.0	R224	150K 1/4W 5% CF 26mm
11014182j26	1.0	R167	1.8K 1/4W 5% CF 26mm
11014183j26	1.0	R231	18K 1/4W 5% CF 26mm
11014204j26	1.0	R235	200K 1/4W 5% CF 26mm
11014220j26	2.0	R128,129	22 ohms [ 1/4W 5% CF 26mm
11014221j26	2.0	R110,111	220 ohms [ 1/4W 5% CF 26mm
11014222j26	3.0	R161,164,234	2.2K 1/4W 5% CF 26mm
11014223j26	8.0	R103,104,115,141,143,213,227,228	22K 1/4W 5% CF 26mm
11014224j26	2.0	R208,210	220K 1/4W 5% CF 26mm
11014271j26	3.0	R107,162,165	270 ohms [ 1/4W 5% CF 26mm
11014275j26	1.0	R229	2.7M 1/4W 5% CF 26mm
11014332j26	5.0	R102,106,117,118,136	3.3K 1/4W 5% CF 26mm
11014333j26	2.0	R101,137	33K 1/4W 5% CF 26mm
11014392j26	2.0	R122,123	3.9K 1/4W 5% CF 26mm
11014470j26	2.0	R124,125	47 ohms [ 1/4W 5% CF 26mm
11014471j26	2.0	R147,209	470 ohms [ 1/4W 5% CF 26mm
11014472j26	8.0	R140,142,151,156,157,204,205,132	4.7K 1/4W 5% CF 26mm
11014473j26	9.0	R138,149,150,158,216,217,221-223	47K 1/4W 5% 26mm
11014510j26	1.0	R132	51 ohms [ 1/4W 5% CF 26mm
11014512j26	1.0	R120	5.1K 1/4W 5% CF 26mm
11014562j26	1.0	R155	5.6K 1/4W 5% CF 26mm
1014682j26	3.0	R119,146,153	6.8K 1/4W 5% CF 26mm
11014683j26	3.0	R114,169,172	68K 1/4W 5% CF 26mm
11014911j26	1.0	R154	910 ohms [ 1/4W 5% CF 26mm
116141742f26	1.0	R212	17.4K 1/4W 1% MF 26mm
116142873f26	1.0	R236	287K 1/4W 1% MF 26mm
116146651f26	1.0	R211	6.65K 1/4W 1% MF 26mm
116146981f26	1.0	R220	6.98K 1/4W 1% MF 26mm
116147682f26	1.0	R219	76.8K 1/4W 1% MF 26mm
11010331j20	1.0	R148	330 ohms [ 1W 5% 20mm
11012100j15	1.0	R139	10 ohms [ 1/2W 5% 15mm
11012182j15	1.0	R152	1.8K 1/2W 5% 15mm
11012221j20	2.0	R160,163	220 ohms [ 1/2W 5% 20mm
11014222j26	1.0	R173	2.2K 1/4W 5% CF 26mm
11350r10j20	2.0	R130,131	0.1 ohms [ 5W 5%
11403302rn0	1.0	VR102	3K 0.3W 20%
115v104b1	1.0	VR201	D16 100K/1Gang VOLUME
Capacitors			
1302g472md00	1.0	C001	4700P 400V 20%
1302b101k503	2.0	C108,9	100P 50V 10%
1302b221k503	5.0	C131,203,204,214,218	220P 50V 10%
1302b581k503	1.0	C228	680P 50V 10%
1302f104m503	1.0	C107	0.1U 50V 20%
1302f104z503	10.0	C118,124,126,132-135,220,222,223	0.1U 50V +80/-20%
1303f102k503	1.0	C225	0.001U 50V 10%
1303f473m503	1.0	C227	0.047U 50V 20%
132102j503	1.0	C102	0.001U 50V 5%
132103j503	1.0	C207	0.01U 50V 5%
132222j503	1.0	C101	0.0022U 50V 5%
1353105m50	2.0	C106,217	1U 50V 20%

## RS-10 Electronic Parts List (Cont.)

Part Number	Qty	Designator	Description
1353106m50	6.0	C103,104,205,212,213,219	10U 50V 20%
1353107m16	4.0	C117,127,128,226	100uF 16V 20%
1353107m50	2.0	C110,111	100U 50V 20%
1353226m50	1.0	C224	22U 50V 20
1353227m16	1.0	C221	220U 16V 20
1353475m50	2.0	C201,202	4.7U 50V 20%
1353476m25	5.0	C105,113,114,123,125	47U 25V 20%
1353477m10	1.0	C116	470U 10V 20% 52mm
1353478m50	2.0	C119,120	4700U 50V 20
1303f102k504	1.0	C137	0.001uF 50V 10%
1309l470k504	1.0	C229	47P 50V 10%
132104j504	2.0	C112,136	0.1u/50V 5%
132154j504	1.0	C209	0.15u 50V 5%
132223kb50	2.0	C129,130	0.022uF 250V 10% VDE
132224j504	3.0	C208,215,216	0.22U 50V 5%
1354107m16	1.0	C115	100U 16V 20%
1354478m63	2.0	C121,122	4700U 63V 20%
Semiconductors			
19006m4558d	4.0	IC101,201,202,203	4558D DUAL OP-AMP
19016lm311n	1.0	IC102	LM311 COMPARATOR
192021c1815gr	2.0	Q106,130	2SC1815GR NPN
192021c5200o	1.0	Q113	2SC5200 NPN
192021d669a	1.0	Q111	2SD669A NPN
192022a1943o	1.0	Q112	2SA1943 PNP
192022b649a	1.0	Q110	2SB649A PNP
192161tip41c	1.0	Q120	TIP41C NPN SGS
192162tip42c	1.0	Q116	TIP42C PNP SGS
1921672n5551	3.0	Q108,114,119	2N5551 NPN
1921682n5401	3.0	Q109,115,123	2N5401 PNP 350V 500mA TO-92
192201d882y	1.0	Q131	KSD882Y
192202b772y	1.0	Q134	KSB772Y
19510336egw	1.0	D205	LED 336EGW
19700kb1405	2.0	D112,113	4A 500V KBL405 DIODE BRIDGE
197101n4002	1.0	D108	1N4002
197101n5402	2.0	D104,105	1N5402
192027c1815gr	14.0	Q101,103,105,107,122,124-126, Q128,132,133,201,202,203	2SC1815GR NPN
192027c2235y	1.0	Q117	2SC2235Y PNP
192028a1015gr	5.0	Q102,104,118,129,135	2SA1015GR PNP
192028a965y	1.0	Q121	2SA965Y PNP
197131n4148	12.0	D101-103,106,107,109,111,201, D202,204,206,207	1N4148 26mm
19915000333	1.0	D203	3.3V 1/2W ZENER
19915000623	1.0	D110	6.2V 1/2W 26mm ZENER
19915001503	1.0	D114	15V 1/2W 26mm ZENER
Miscellaneous			
152ua22015	1.0	AC001	12FT 2PIN power cord
180pbr12c11s	1.0	SW001	PUSH BR12C11S (Power switch)
180tms7210v	2.0	SW201,2	SWITCH SLIDE 6PIN MS7210V (Auto-On) (Input Select)
16210085001	1.0		[WIRE 80mm AWG28 3mm
16250129001	1.0		[CABLE ASSY 120mm AWG28 WHT
171ugs212l	1.0	RY101	[RELAY MI-SH-212L @22
1740rcb202v	1.0	K201	RCA JACK RCB-202V
1751c02v01	2.0	201,D205	2PIN PITCH=2.5mm
1751c07v01	1.0	P101	7PIN PITCH=2.5mm
1751d02v01	1.0	P103	2PIN PITCH=3.96mm
1751d05v01	1.0	P102	5PIN 3.96mm
650sub240	4.0		PCB Stand L-TYPE t=1.6mm S.P.C.C
653hs10	2.0		Heat Sink. BLK. 16D*25L
150e0965502	1.0	PT001	Power Transformer EI-96 TT096980307A
154u40006t0	1.0	FS001	4.0A 250V T-TYPE Slo-Blo
155520020	1.0		FUSE HOLDER R3-11
700kb800	1.0		KNOB 46077-W.P.V.C.

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## RS-10 Electronic Parts List (Cont.)

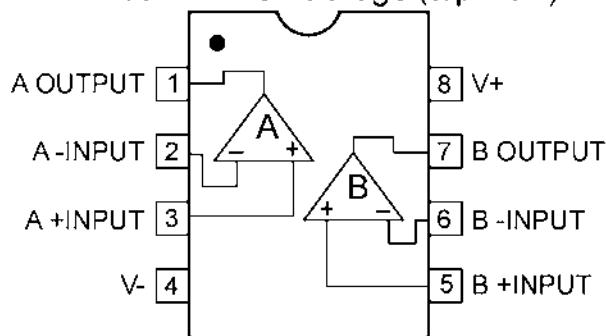
Part Number	Qty	Designator	Description
16210082007	1.0		WIRE RED 18AWG 80mm 8mm#1015]
16251229001	1.0		CABLE ASSY 1220mm +/-10mm AWG WHT ]
16251532002	1.0		CABLE ASSY #205 1530mm AWG20 RED UL]
16251534001	1.0		CABLE ASSY 1530mm +/-10mm AWG22 YEL]
176wjce1	1.0		Close-end terminal CE-1
1932m1813	2.0		Q116,20 MICA INSULATOR TO-220 18*13mm
1933m2522	2.0		Q112,3 MICA INSULATOR TO-3P2 25*22mm
640rp10	1.0		AMP PLATE 152.4W*330.2L*2.5t*
650ih125	6.0		IC-6 IC HOLDER
700rc10	1.0		REAR AMP COVER*329.2L*3t*102H ABS90V-0
723a10	4.0		GASKET EVA*300*14.2*1t
723b10	2.0		GASKET EVA*150.7*14.2*1t
723c10	2.0		GASKET EVA*150.7*14.2*1t
725a125	4.0		GASKET XFORMER-4 25*21*4t -1½"
SCREWS			
06-m30809	4.0	R/P TO BRKT-4	M3.0*8*P0.5 □
06-m31204	6.0	R/P TO IC/H-6	M3*12
06-m41013	2.0	XFORMER-2	M4*10¥
06-m41605	2.0	XFORMER-2	M4*16 1]
06-n4hw01	2.0	XFORMER-2	M4 ¥-x]
06-t31004	1.0	R/P TO RCA JACK-1	M3*10mm
06-t4165013	8.0	R/P TO R/C-8	4.0*16 □
06-m30809	8.0	PCB TO BRKT-8	M3.0*8*P0.5 □Q
06-t30804	4.0	IC TO H/S-2, PCB TO H/S-2	3*8

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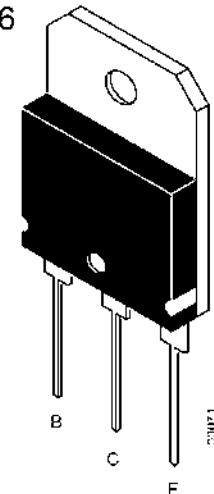
## Integrated Circuit Diagrams

IC101, IC102, IC203

4558 Dual Op Amp, Lm311 Comparator  
Dual In-Line Package (top view)

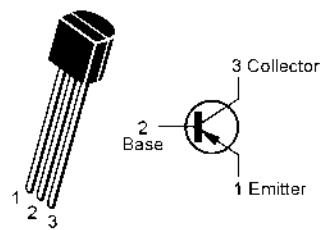


TIP42C NPN,  
TIP41C PNP,  
Q120,116

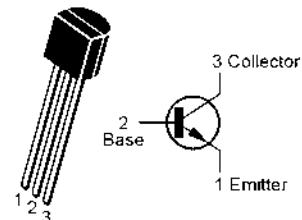


2N5401, PNP, TO-92

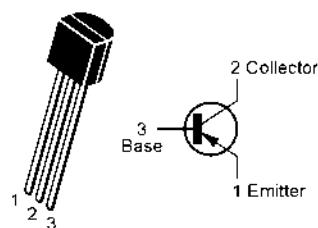
Q109,115,123



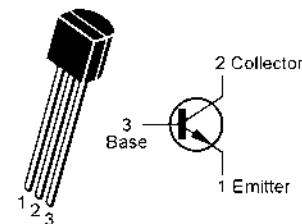
2N5551, NPN,  
Q108,114,119



PNP,  
2SA965, 2SA1015GR, 2SA1943  
2SB649A, 2SC2235, KSD882Y,  
Q112,110,117,102,104,118,129,  
135,121,131



NPN,  
2SC1815GR, 2SC5200  
2SD669A, 2SC1815GR,  
Q106,130,113,111,101,  
103,105,107,122,124-126,  
128,132,133,201-203,134



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